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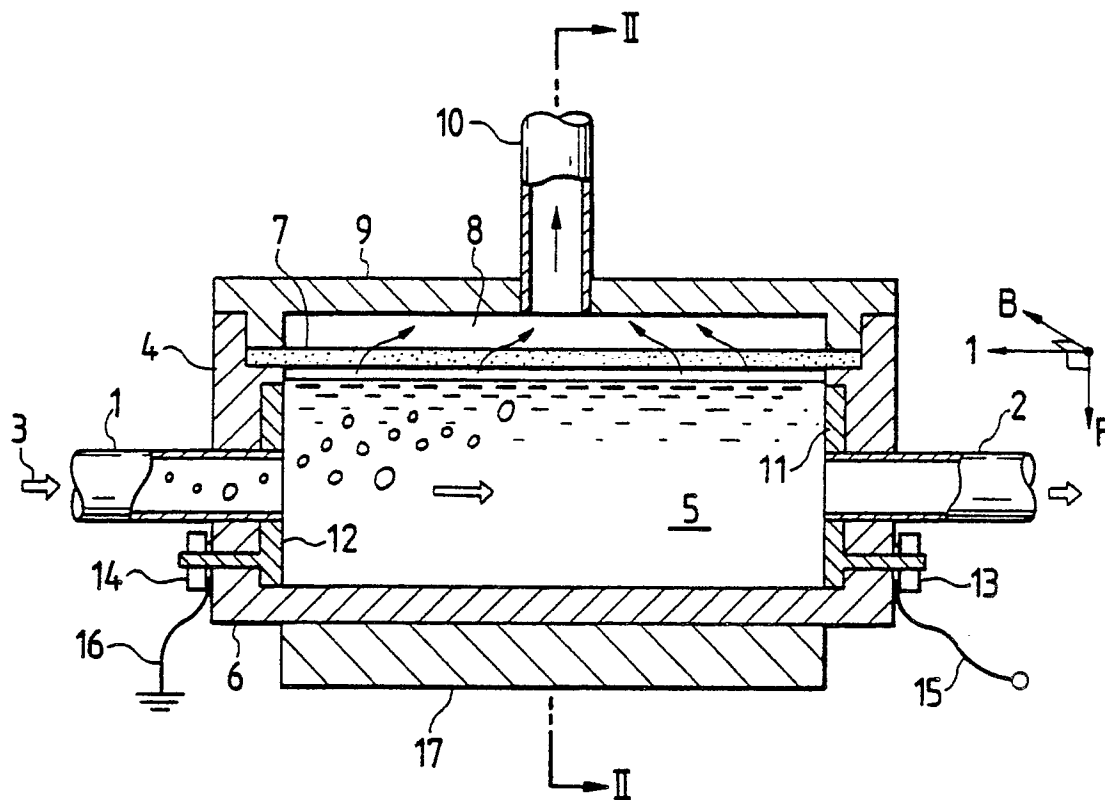
(54) **Gas-liquid separation method for electroconductive gas-liquid two phase flows and the device therefor.**

(57) Method and device wherein electrodes (11,12) are disposed in the vicinity of inlet and outlet portions of the gas-liquid separation region (5) in the flow passage of electroconductive gas-liquid two phase flows (3) so as to flow an electric current thereto; a magnet (17) is disposed in the gas-liquid separation region (5) of the flow passage so as to generate the magnetic field perpendicular to the current and to act an electromagnetic force along the flow passage wall (7) on the electroconductive liquid

and thereby separating the electroconductive gas-liquid two phase flows (3) into gas phase and liquid phase; further, a hydrophobic porous material having water permeability is employed as the flow passage wall (7) in the gas-liquid separation region (5); the gas-liquid separation region (5) is disposed in a reduced pressure region (8); and the separated gas phase is effectively removed out of the flow passage.

**EP 0 374 942 A3**

FIG. 1





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# EUROPEAN SEARCH REPORT

Application Number

EP 89 12 3757

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	EP-A-0 277 581 (H.J. METZKA) * Column 4, line 44 - column 5, line 30; figures * ---	1,10	B 01 D 19/00 B 03 C 1/32
A	SOVIET INVENTIONS ILLUSTRATED, week C51, 4th February 1981, no. 91669C/51, Derwent Publications Ltd, London, GB; & SU-A-732 014 (KALININ POLY) 09-05-1980 * Abstract * ---	10,11	
A	PATENT ABSTRACTS OF JAPAN, vol. 9, no. 218 (C-301)[1941], 5th September 1985; & JP-A-60 82 107 (KAGAKU GIJIYUTSUCHIYOU) 10-05-1985 -----	6,14	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 01 D B 03 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 02-10-1990	Examiner VAN BELLEGHEM W.R.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			